IN THE CLAIMS:

Please amend claims 1-60, as shown in the complete list of claims that is presented below.

1. (currently amended) A secret file access authorization system with fingerprint limitation, comprising: the components as follows:

[[An]] an authorization server provided with an authorization module, which provides a fingerprint template and an authorization secret [[key.]] key, the authorization module including a password fingerprint unit, an environment fingerprint sampling unit, and a time fingerprint sampling unit, which are set in parallel, as well as an authorization unit;

[[An]] an encryption server provided with an encryption module, which generates a decryption secret key by accepting the authorization secret key provided by the authorization module, and produces [[the]] encrypted secret files by encrypting [[the]] secret files to be encrypted. encrypted;

[[A]] a certification server provided with [[an]] the authorization module, which accepts the fingerprint template provided by the authorization module, accepts the decryption secret key provided by the encryption module and the authorization secret key claiming certification that is sent by [[the]] a client, and judges and confirms by providing [[the]] a certified decryption secret key. key; and

[[At]] at least one client machine, each of which is provided with a user module, which embeds [[the]] a kernel encryption/decryption unit into [[the]] a corresponding operation system kernel of the client, accepts the authorization secret key provided by the authorization module and the decryption secret key provided by the encryption module, sends the claiming of certification respectively to a certification module, opens the encryption/decryption unit with [[the]] a certified authorization secret key and the certified decryption secret key which is returned after the certification module makes the certification, certification, and reads/writes the encrypted secret files.

2. (currently amended) A secret file access authorization system with fingerprint limitation according to claim 1, <u>wherein the authorization server,</u> the encryption server<u>,</u> and the certification server are merged to constitute a system server, which is provided with the authorization module, the encryption module<u>,</u> and the certification module.

3. (currently amended) A secret file access authorization system with fingerprint limitation according to claim 1, <u>wherein</u> the authorization server and the encryption server are merged to constitute an authorization-and-encryption server, which is provided with the authorization module and the encryption module.

4. (currently amended) A secret file access authorization system with fingerprint limitation according to claim 1, <u>wherein</u> the authorization server and the certification server are merged to constitute an authorization-and-certification server, which is provided with the authorization module and the certification module.

5. (currently amended) A secret file access authorization system with fingerprint limitation according to claim 1, <u>wherein</u> the encryption server and the certification server are merged to constitute an encryption-and-certification server, which is provided with the encryption module and the certification module.

6. (currently amended) A secret file access authorization system with fingerprint limitation according to claim 1, <u>wherein</u> the ~~authorization module includes a~~ password fingerprint unit, [[an]] <u>the</u> environment fingerprint sampling unit<u>,</u> and [[a]] <u>the</u> time fingerprint sampling <u>unit</u> ~~unit, which are set in parallel, as well as the authorization unit that is linked with the said three units which~~ are set in parallel respectively by [[the]] bidirectional programs; <u>and wherein</u> the authorization unit provides the authorization secret [[key;]] <u>key,</u> while the password fingerprint unit, the environment fingerprint sampling unit<u>,</u> and the time fingerprint sampling unit that are set in parallel provide the fingerprint template<u>.</u> ~~altogether.~~

7. (currently amended) A secret file access authorization system with fingerprint limitation according to claim 6, <u>wherein</u> the authorization secret key is a binary string of a certain length.

8. (currently amended) A secret file access authorization system with fingerprint limitation according to claim 7, <u>wherein</u> the authorization secret key <s>can be</s> <u>is</u> put into [[the]] <u>an</u> authorized entity.

9. (currently amended) A secret file access authorization system with fingerprint limitation according to claim 6, <u>wherein</u> the fingerprint template is a binary string of a certain length.

10. (currently amended) A secret file access authorization system with fingerprint limitation according to claim 1, <u>wherein</u> the encryption module includes [[the]] <u>a</u> secret key generation unit and [[the]] <u>an</u> encryption unit, which are linked in sequence by [[the]] programs; <u>wherein</u> the secret key generation unit provides the decryption secret key after accepting the authorization secret key provided by the authorization module; <u>and wherein</u> the encryption unit accepts the input of secret files to be encrypted, and produces the encrypted secret files by using the decryption secret key provided by the secret key generation unit.

11. (currently amended) A secret file access authorization system with fingerprint limitation according to claim 10, <u>wherein</u> the encryption unit accepts the input of the secret files to be encrypted, and produces the encrypted secret files by using the authorization secret key.

12. (currently amended) A secret file access authorization system with fingerprint limitation according to claim 10, <u>wherein</u> the encryption unit accepts the input of the secret files to be encrypted, and produces the encrypted secret files by using the decryption secret key and the authorization secret key at the same time.

13. (currently amended) A secret file access authorization system with fingerprint limitation according to claim 1, <u>wherein</u> the certification module includes an environment fingerprint certification unit, a password fingerprint certification unit, and a time fingerprint certification unit set in parallel by accepting the fingerprint template provided by the authorization module; <u>wherein a</u> [[the]] certification interface unit <u>is</u> linked with them by [[the]] bidirectional programs, ~~which~~ <u>and</u> also accepts the decryption secret key provided by the encryption module and [[the]] <u>a</u> certification secret key from the user module claiming certification respectively, and provides the certified decryption secret key for the user module.

14. (currently amended) A secret file access authorization system with fingerprint limitation according to claim 1, <u>wherein</u> the user module includes [[the]] <u>an</u> application unit, [[the]] <u>a</u> kernel encryption/decryption unit and [[the]] <u>an</u> input/output unit, which are linked in sequence by [[the]] bidirectional ~~programs;~~ <u>programs,</u> as well as [[the]] <u>an</u> authorization input unit, which accepts the authorization secret key and sends it into the kernel encryption/decryption unit; <u>wherein</u> the kernel encryption/decryption unit provides the authorization secret key claiming certification for [[the]] <u>a</u> certification module, and accepts [[the]] <u>a</u> certified decryption secret key sent by the certification module; [[and]] <u>wherein</u> the input/output unit is coupled with the encrypted secret files bidirectionally; <u>wherein</u> the kernel encryption/decryption unit is embedded in the ~~client~~ operation system kernel.

15. (currently amended) A secret file access authorization system with fingerprint limitation according to claim 14, <u>wherein</u> the ~~client~~ operation system ~~can be~~ <u>is</u> Microsoft Windows 95/98/ME/NT/2000/XP/2003 Server or Linux/Unix or Pocket, Symbian OS, Windows CE embedded operation system or Mac OS or Sun OS, Novell netware and other server or network operation systems.

16. (currently amended) A secret file access authorization system with fingerprint limitation according to claim 14, [[the]] <u>wherein a</u> program used by the application unit ~~can be~~ <u>is</u> Microsoft Office and its components or other desktop applications or embedded applications.

17. (currently amended) A secret file access authorization system with fingerprint limitation according to claim 2, wherein the authorization module includes [[a]] the password fingerprint unit, [[an]] the environment fingerprint sampling unit, [[and a]] the time fingerprint sampling unit, which are set in parallel, as well as and the authorization unit; wherein the password fingerprint unit, the environment fingerprint sampling unit, and the time fingerprint sampling unit that is linked with the said three units which are set in parallel respectively by [[the]] bidirectional programs; wherein the authorization unit provides the authorization secret [[key;]] key, while the password fingerprint unit, the environment fingerprint sampling unit, and the time fingerprint sampling unit that are set in parallel provide the fingerprint template. altogether.

18. (currently amended) A secret file access authorization system with fingerprint limitation according to claim 3, wherein the authorization module includes [[a]] the password fingerprint unit, [[an]] the environment fingerprint sampling unit, the [[and a]] time fingerprint sampling unit, which are set in parallel, as well as and the authorization unit; wherein the password fingerprint unit, the environment fingerprint sampling unit, and the time fingerprint sampling unit that is linked with the said three units which are set in parallel respectively by [[the]] bidirectional programs; wherein the authorization unit provides the authorization secret [[key;]] key, while the password fingerprint unit, the environment fingerprint sampling unit, and the time fingerprint sampling unit that are set in parallel provide the fingerprint template. altogether.

19. (currently amended) A secret file access authorization system with fingerprint limitation according to claim 4, wherein the authorization module includes [[a]] the password fingerprint unit, [[an]] the environment fingerprint sampling unit, the [[and a]] time fingerprint sampling unit, which are set in parallel, as well as and the authorization unit; wherein the password fingerprint unit, the environment fingerprint sampling unit, and the time fingerprint sampling unit that is linked with the said three units which are set in parallel respectively by [[the]] bidirectional programs; wherein the authorization unit provides the authorization secret [[key;]] key, while the password fingerprint unit, the environment

fingerprint sampling unit, and the time fingerprint sampling unit ~~that are set in parallel~~ provide the fingerprint template. ~~altogether.~~

20. (currently amended) A secret file access authorization system with fingerprint limitation according to claim 5, <u>wherein</u> the authorization module includes [[a]] <u>the</u> password fingerprint unit, [[an]] <u>the</u> environment fingerprint sampling unit<u>, the</u> ~~and a~~ time fingerprint sampling unit, ~~which are set in parallel, as well as~~ <u>and</u> the authorization unit<u>; wherein the password fingerprint unit, the environment fingerprint sampling unit, and the time fingerprint sampling unit</u> ~~that is linked with the said three units which~~ are set in parallel respectively by [[the]] bidirectional programs; <u>wherein</u> the authorization unit provides the authorization secret [[key;]] <u>key,</u> while the password fingerprint unit, the environment fingerprint sampling unit, and the time fingerprint sampling unit that are set in parallel provide the fingerprint template. ~~altogether.~~

21. (currently amended) A secret file access authorization system with fingerprint limitation according to claim 17, <u>wherein</u> the authorization secret key is a binary string of a certain length.

22. (currently amended) A secret file access authorization system with fingerprint limitation according to claim 18, <u>wherein</u> the authorization secret key is a binary string of a certain length.

23. (currently amended) A secret file access authorization system with fingerprint limitation according to claim 19, <u>wherein</u> the authorization secret key is a binary string of a certain length.

24. (currently amended) A secret file access authorization system with fingerprint limitation according to claim 20, <u>wherein</u> the authorization secret key is a binary string of a certain length.

25. (currently amended) A secret file access authorization system with fingerprint limitation according to claim 21, <u>wherein</u> the authorization secret key ~~can be~~ <u>is</u> put into [[the]] <u>an</u> authorized entity.

26. (currently amended) A secret file access authorization system with fingerprint limitation according to claim 22, <u>wherein</u> the authorization secret key ~~can be~~ <u>is</u> put into [[the]] <u>an</u> authorized entity.

27. (currently amended) A secret file access authorization system with fingerprint limitation according to claim 23, <u>wherein</u> the authorization secret key ~~can be~~ <u>is</u> put into [[the]] <u>an</u> authorized entity.

28. (currently amended) A secret file access authorization system with fingerprint limitation according to claim 24, <u>wherein</u> the authorization secret key ~~can be~~ <u>is</u> put into [[the]] <u>an</u> authorized entity.

29. (currently amended) A secret file access authorization system with fingerprint limitation according to claim 17, <u>wherein</u> the fingerprint template is a binary string of a certain length.

30. (currently amended) A secret file access authorization system with fingerprint limitation according to claim 18, <u>wherein</u> the fingerprint template is a binary string of a certain length.

31. (currently amended) A secret file access authorization system with fingerprint limitation according to claim 19, <u>wherein</u> the fingerprint template is a binary string of a certain length.

32. (currently amended) A secret file access authorization system with fingerprint limitation according to claim 20, wherein the fingerprint template is a binary string of a certain length.

33. (currently amended) A secret file access authorization system with fingerprint limitation according to claim 2, wherein the encryption module includes [[the]] a secret key generation unit and [[the]] an encryption unit, which are linked in sequence by [[the]] programs; wherein the secret key generation unit provides the decryption secret key after accepting the authorization secret key provided by the authorization module; and wherein the encryption unit accepts the input of secret files to be encrypted, and produces the encrypted secret files by using the decryption secret key provided by the secret key generation unit.

34. (currently amended) A secret file access authorization system with fingerprint limitation according to claim 3, wherein the encryption module includes [[the]] a secret key generation unit and [[the]] an encryption unit, which are linked in sequence by [[the]] programs; wherein the secret key generation unit provides the decryption secret key after accepting the authorization secret key provided by the authorization module; and wherein the encryption unit accepts the input of secret files to be encrypted, and produces the encrypted secret files by using the decryption secret key provided by the secret key generation unit.

35. (currently amended) A secret file access authorization system with fingerprint limitation according to claim 4, wherein the encryption module includes [[the]] a secret key generation unit and [[the]] an encryption unit, which are linked in sequence by [[the]] programs; wherein the secret key generation unit provides the decryption secret key after accepting the authorization secret key provided by the authorization module; and wherein the encryption unit accepts the input of secret files to be encrypted, and produces the encrypted secret files by using the decryption secret key provided by the secret key generation unit.

36. (currently amended) A secret file access authorization system with fingerprint limitation according to claim 5, wherein the encryption module includes [[the]] a secret key

generation unit and [[the]] an encryption unit, which are linked in sequence by [[the]] programs; wherein the secret key generation unit provides the decryption secret key after accepting the authorization secret key provided by the authorization module; and wherein the encryption unit accepts the input of secret files to be encrypted, and produces the encrypted secret files by using the decryption secret key provided by the secret key generation unit.

37 (currently amended) A secret file access authorization system with fingerprint limitation according to claim 33, wherein the encryption unit accepts the input of the secret files to be encrypted, and produces the encrypted secret files by using the authorization secret key.

38. (currently amended) A secret file access authorization system with fingerprint limitation according to claim 34, wherein the encryption unit accepts the input of the secret files to be encrypted, and produces the encrypted secret files by using the authorization secret key.

39. (currently amended) A secret file access authorization system with fingerprint limitation according to claim 35, wherein the encryption unit accepts the input of the secret files to be encrypted, and produces the encrypted secret files by using the authorization secret key.

40. (currently amended) A secret file access authorization system with fingerprint limitation according to claim 36, wherein the encryption unit accepts the input of the secret files to be encrypted, and produces the encrypted secret files by using the authorization secret key.

41. (currently amended) A secret file access authorization system with fingerprint limitation according to claim 33, wherein the encryption unit accepts the input of the secret files to be encrypted, and produces the encrypted secret files by using the decryption secret key and the authorization secret key at the same time.

42. (currently amended) A secret file access authorization system with fingerprint limitation according to claim 34, wherein the encryption unit accepts the input of the secret files to be encrypted, and produces the encrypted secret files by using the decryption secret key and the authorization secret key at the same time.

43. (currently amended) A secret file access authorization system with fingerprint limitation according to claim 35, wherein the encryption unit accepts the input of the secret files to be encrypted, and produces the encrypted secret files by using the decryption secret key and the authorization secret key at the same time.

44. (currently amended) A secret file access authorization system with fingerprint limitation according to claim 36, wherein the encryption unit accepts the input of the secret files to be encrypted, and produces the encrypted secret files by using the decryption secret key and the authorization secret key at the same time.

45. (currently amended) A secret file access authorization system with fingerprint limitation according to claim 2, wherein the certification module includes an environment fingerprint certification unit, a password fingerprint certification unit, and a time fingerprint certification unit set in parallel by accepting the fingerprint template provided by the authorization module; [[the]] and wherein a certification interface unit is linked with them by [[the]] bidirectional programs, which also accepts the decryption secret key provided by the encryption module and the certification secret key from the user module claiming certification respectively, and provides the certified decryption secret key for the user module.

46. (currently amended) A secret file access authorization system with fingerprint limitation according to claim 3, wherein the certification module includes an environment fingerprint certification unit, a password fingerprint certification unit, and a time fingerprint certification unit set in parallel by accepting the fingerprint template provided by the authorization module; [[the]] and wherein a certification interface unit is linked with them by

[[the]] bidirectional programs, which also accepts the decryption secret key provided by the encryption module and the certification secret key from the user module claiming certification respectively, and provides the certified decryption secret key for the user module.   )

47. (currently amended) A secret file access authorization system with fingerprint limitation according to claim 4, wherein the certification module includes an environment fingerprint certification unit, a password fingerprint certification unit, and a time fingerprint certification unit set in parallel by accepting the fingerprint template provided by the authorization module; [[the]] and wherein a certification interface unit is linked with them by [[the]] bidirectional programs, which also accepts the decryption secret key provided by the encryption module and the certification secret key from the user module claiming certification respectively, and provides the certified decryption secret key for the user module.

48. (currently amended) A secret file access authorization system with fingerprint limitation according to claim 5, wherein the certification module includes an environment fingerprint certification unit, a password fingerprint certification unit, and a time fingerprint certification unit set in parallel by accepting the fingerprint template provided by the authorization module; [[the]] and wherein a certification interface unit linked with them by the bidirectional programs, which also accepts the decryption secret key provided by the encryption module and the certification secret key from the user module claiming certification respectively, and provides the certified decryption secret key for the user module.

49. (currently amended) A secret file access authorization system with fingerprint limitation according to claim 2, wherein the user module includes [[the]] an application unit, the kernel encryption/decryption unit, and [[the]] an input/output unit, which are linked in sequence by [[the]] bidirectional programs, and an programs; as well as the authorization input unit, which accepts the authorization secret key and sends it into the kernel encryption/decryption unit; wherein the kernel encryption/decryption unit provides the authorization secret key claiming certification for the certification module, and accepts the certified decryption secret key sent by the certification module; and the wherein an

input/output unit is coupled with the encrypted secret files bidirectionally; and wherein the kernel encryption/decryption unit is embedded in the ~~client~~ operation system kernel.

50. (currently amended) A secret file access authorization system with fingerprint limitation according to claim 3, wherein the user module includes [the]] an application unit, the kernel encryption/decryption unit, and [[the]] an input/output unit, which are linked in sequence by [[the]] bidirectional ~~programs; as well as the~~ programs, and an authorization input unit, which accepts the authorization secret key and sends it into the kernel encryption/decryption unit; wherein the kernel encryption/decryption unit provides the authorization secret key claiming certification for the certification module, and accepts the certified decryption secret key sent by the certification module; and the input/output unit is coupled with the encrypted secret files bidirectionally; and wherein the kernel encryption/decryption unit is embedded in the ~~client~~ operation system kernel.

51. (currently amended) A secret file access authorization system with fingerprint limitation according to claim 4, wherein the user module includes [[the]] an application unit, the kernel encryption/decryption unit, and [[the]] an input/output unit, which are linked in sequence by [[the]] bidirectional ~~programs; as well as the~~ programs, and an authorization input unit, which accepts the authorization secret key and sends it into the kernel encryption/decryption unit; wherein the kernel encryption/decryption unit provides the authorization secret key claiming certification for the certification module, and accepts the certified decryption secret key sent by the certification module; [[and]] wherein the input/output unit is coupled with the encrypted secret files bidirectionally; and wherein the kernel encryption/decryption unit is embedded in the ~~client~~ operation system kernel.

52. (currently amended) A secret file access authorization system with fingerprint limitation according to claim 5, wherein the user module includes [[the]] an application unit, the kernel encryption/decryption unit, and [[the]] an input/output unit, which are linked in sequence by [[the]] bidirectional ~~programs; as well as the~~ programs, and an authorization input unit, which accepts the authorization secret key and sends it into the kernel

encryption/decryption unit; <u>wherein</u> the kernel encryption/decryption unit provides the authorization secret key claiming certification for the certification module, and accepts the certified decryption secret key sent by the certification module; [[and]] <u>wherein</u> the input/output unit is coupled with the encrypted secret files bidirectionally; <u>and wherein</u> the kernel encryption/decryption unit is embedded in the ~~client~~ operation system kernel.

53. (currently amended) A secret file access authorization system with fingerprint limitation according to claim 49, <u>wherein</u> the ~~client~~ operation system ~~can be~~ <u>is</u> Microsoft Windows 95/98/ME/NT/2000/XP/2003 Server or Linux/Unix or Pocket, Symbian OS, Windows CE embedded operation system or Mac OS or Sun OS, Novell netware and other server or network operation systems.

54. (currently amended) A secret file access authorization system with fingerprint limitation according to claim 50, <u>wherein</u> the ~~client~~ operation system ~~can be~~ <u>is</u> Microsoft Windows 95/98/ME/NT/2000/XP/2003 Server or Linux/Unix or Pocket, Symbian OS, Windows CE embedded operation system or Mac OS or Sun OS, Novell netware and other server or network operation systems.

55. (currently amended) A secret file access authorization system with fingerprint limitation according to claim 51, <u>wherein</u> the ~~client~~ operation system ~~can be~~ <u>is</u> Microsoft Windows 95/98/ME/NT/2000/XP/2003 Server or Linux/Unix or Pocket, Symbian OS, Windows CE embedded operation system or Mac OS or Sun OS, Novell netware and other server or network operation systems.

56. (currently amended) A secret file access authorization system with fingerprint limitation according to claim 52, <u>wherein</u> the ~~client~~ operation system ~~can be~~ <u>is</u> Microsoft Windows 95/98/ME/NT/2000/XP/2003 Server or Linux/Unix or Pocket, Symbian OS, Windows CE embedded operation system or Mac OS or Sun OS, Novell netware and other server or network operation systems.

57. (currently amended) A secret file access authorization system with fingerprint limitation according to claim 49, wherein a [[the]] program used by the application unit ~~can be~~ is Microsoft Office and its components or other desktop applications or embedded applications.

58. (currently amended) A secret file access authorization system with fingerprint limitation according to claim 50, wherein a [[the]] program used by the application unit ~~can be~~ is Microsoft Office and its components or other desktop applications or embedded applications.

59. (currently amended) A secret file access authorization system with fingerprint limitation according to claim 51, wherein a [[the]] program used by the application unit ~~can be~~ is Microsoft Office and its components or other desktop applications or embedded applications.

60. (currently amended) A secret file access authorization system with fingerprint limitation according to claim 52, wherein a [[the]] program used by the application unit ~~can be~~ is Microsoft Office and its components or other desktop applications or embedded applications.

61. (new) A secret file access authorization system with fingerprint limitation according to claim 1, wherein the environment fingerprint sampling unit determines whether a request for decryption of one of the encrypted secret files originated from a client machine that is authorized to decrypt said one of the encrypted secret files, and wherein the time signature sampling unit determines whether said request for decryption has occurred during a limited time window set for authorized decryption.